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☐ 1. Document ID: US 6590391 B1 Relevance Rank: 59

L1: Entry 3 of 4

File: USPT

Jul 8, 2003

US-PAT-NO: 6590391

DOCUMENT-IDENTIFIER: US 6590391 B1

TITLE: MRI DIAGNOSIS APPARATUS WITH AN INTERGRATED CABINET THAT IS MECHANICALLY AND ELECTRICALLY CONNECTED TO THE ELECTRICALLY CONDUCTIVE SHIELD OF THE SHIELD ROOM IN WHICH THE MR MEASUREMENT SYSTEM IS ARRANGED

DATE-ISSUED: July 8, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------|-------------|-------|----------|---------|
| Shudo; Tsuyoshi | Hitachinaka | | | JP |
| Tsuda; Munetaka | Mito | | | JP |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|-----------------------------|-------|-------|----------|---------|-----------|
| Hitachi Medical Corporation | Tokyo | | | JP | 03 |

APPL-NO: 09/391072 [PALM]

DATE FILED: September 16, 1999

FOREIGN-APPL-PRIORITY-DATA:

| COUNTRY | APPL-NO | APPL-DATE |
|---------|-----------|--------------------|
| JP | 10-263326 | September 17, 1998 |

INT-CL-ISSUED: [07] G01V 3/00

INT-CL-CURRENT:

| TYPE IPC | DATE |
|--------------------------|----------|
| CIPS <u>G01 R 33/38</u> | 20060101 |
| CIPS <u>G01 R 33/385</u> | 20060101 |

US-CL-ISSUED: 324/318; 324/322, 324/320

US-CL-CURRENT: 324/318; 324/320, 324/322

FIELD-OF-CLASSIFICATION-SEARCH: 324/309, 324/320, 324/307, 324/318, 324/314, 324/322

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

| PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|----------------|---------------|-------------------------|---------|
| <u>4651099</u> | March 1987 | Vinegar et al. | 324/320 |
| <u>4667159</u> | May 1987 | Hodsoll, Jr. et al. | 324/309 |
| <u>4992736</u> | February 1991 | Stormont et al. | 324/309 |
| <u>5933450</u> | August 1999 | Lakshminarayanan et al. | 382/260 |
| <u>5933540</u> | August 1999 | Lakshminarayanan et al. | 382/260 |
| <u>6198285</u> | March 2001 | Kormos et al. | 324/318 |
| <u>6229311</u> | May 2001 | Abenaim | 324/322 |

FOREIGN PATENT DOCUMENTS

| FOREIGN-PAT-NO | PUBN-DATE | COUNTRY | CLASS |
|----------------|-----------|---------|-------|
| 0210525 | July 1986 | DE | |
| 0210525 | July 1986 | EP | |

ART-UNIT: 2862

PRIMARY-EXAMINER: Lefkowitz; Edward

ASSISTANT-EXAMINER: Fetzner; Tiffany A.

ATTY-AGENT-FIRM: Antonelli, Terry, Stout, & Kraus, LLP

ABSTRACT:

A line filter unit and a gradient magnetic field power supply placed in a shield room are contained in one cabinet to integrate them into one unit, and the integrated cabinet unit is attached on a wall of the shield room, and the cabinet unit is electrically integrated with a radio frequency shield conductor in the radio frequency shield room. Further, a signal amplifier and an electric power amplifier may be contained in the integrated cabinet unit.

41 Claims, 7 Drawing figures

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | Index | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-------|----------|

☐ 2. Document ID: US 6459265 B1 Relevance Rank: 53

L1: Entry 4 of 4

File: USPT

Oct 1, 2002

US-PAT-NO: 6459265
DOCUMENT-IDENTIFIER: US 6459265 B1

TITLE: Method and apparatus for reducing input impedance of a preamplifier

DATE-ISSUED: October 1, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------------------|-----------------|-------|----------|---------|
| Lou; Xiaoming | Waukesha | WI | | |
| Stormont; Robert Steven | Hartland | WI | | |
| Boskamp; Eddy Benjamin | Menomonee Falls | WI | | |
| Becerra; Ricardo | Waukesha | WI | | |
| Prendergast, Sr.; John Francis | Franklin | WI | | |
| Haig; Paul Douglas | Milwaukee | WI | | |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|--------------------------|-------------|-------|----------|---------|-----------|
| General Electric Company | Schenectady | NY | | | 02 |

APPL-NO: 09/199508 [PALM]
DATE FILED: November 25, 1998

INT-CL-ISSUED: [07] G01V 3/00

INT-CL-CURRENT:

| TYPE | IPC | DATE |
|------|------------|----------|
| CIPP | G05 F 1/70 | 20060101 |

US-CL-ISSUED: 324/322; 324/318
US-CL-CURRENT: 324/322; 324/318

FIELD-OF-CLASSIFICATION-SEARCH: 307/107, 324/306, 324/307, 324/322, 73/204,
330/282, 330/277, 341/139, 367/67, 323/208
See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

| PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|----------------|---------------|----------------|---------|
| <u>4255968</u> | March 1981 | Harpster | 307/107 |
| <u>4882541</u> | November 1989 | Haragashira | 324/322 |
| <u>4890062</u> | December 1989 | Haragashira | 324/322 |
| <u>5570022</u> | October 1996 | Ehnholm et al. | 324/319 |
| <u>5909120</u> | June 1999 | Mori et al. | 324/322 |
| <u>6025720</u> | February 2000 | Lenz et al. | 324/322 |
| <u>6369550</u> | April 2002 | Lou et al. | 323/208 |

ART-UNIT: 2862

PRIMARY-EXAMINER: Lefkowitz; Edward

ASSISTANT-EXAMINER: Fetzner; Tiffany A.

ATTY-AGENT-FIRM: Fletcher, Yoder & Van Someren

ABSTRACT:

A feedback circuit is provided for reducing the input impedance of a preamplifier circuit, such as for use with a sensing coil in an imaging system. The feedback circuit permits adjustment of the input impedance by balancing inductive and capacitive components of a feedback control circuit. The imaginary component of the input impedance may be adjusted independently of the real component, to provide a substantially zero input impedance, while allowing adjustment of the stability of the system. The circuitry may function in conjunction with a reactance matching circuit to reduce cross-talk in multiple sensing coil arrangements.

15 Claims, 7 Drawing figures

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | RMD | Drama D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|---------|

3. Document ID: US 6946842 B2 Relevance Rank: 52

L1: Entry 2 of 4

File: USPT

Sep 20, 2005

US-PAT-NO: 6946842

DOCUMENT-IDENTIFIER: US 6946842 B2

TITLE: Analytical instrument and processes

DATE-ISSUED: September 20, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------------|-----------|-------|----------|---------|
| Gozansky; Elliott Kirk | Ann Arbor | MI | 48105 | |

APPL-NO: 10/856446 [PALM]

DATE FILED: May 28, 2004

PARENT-CASE:

CROSS REFERENCE TO RELATED APPLICATIONS This application claims priority to application Ser. No. 60/473,792, filed on May 28, 2003.

INT-CL-ISSUED: [07] G01V 3/00, A61B 5/055

INT-CL-CURRENT:

| TYPE | IPC | DATE |
|------|-------------|----------|
| CIPN | G01 N 1/02 | 20060101 |
| CIPS | G01 R 33/30 | 20060101 |

US-CL-ISSUED: 324/318; 600/410
US-CL-CURRENT: 324/318; 600/410

FIELD-OF-CLASSIFICATION-SEARCH: 73/23.2, 73/23.36, 73/23.41, 324/300-322, 128/845, 128/846, 607/96, 436/518, 436/37, 601/16, 49/507, 604/262, 454/187, 414/217.1, 134/6, 600/410

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

| PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|---------------------|----------------|----------------|-----------|
| <u>2702034</u> | February 1955 | Walter | 604/262 |
| <u>4676144</u> | June 1987 | Smith, III | 454/187 |
| <u>4817644</u> | April 1989 | Holmes et al. | 134/6 |
| <u>5192910</u> | March 1993 | Hepp et al. | 324/315 |
| <u>5451131</u> | September 1995 | Hecht et al. | 414/217.1 |
| <u>6410331</u> | June 2002 | Schultz et al. | 436/37 |
| <u>6418932</u> | July 2002 | Paschal et al. | 128/845 |
| <u>6553722</u> | April 2003 | Porret et al. | 49/507 |
| <u>6817143</u> | November 2004 | Porret et al. | 49/507 |
| <u>2001/0029955</u> | October 2001 | Paschal et al. | 128/846 |
| <u>2002/0133100</u> | September 2002 | Paschal et al. | 601/16 |
| <u>2003/0015019</u> | January 2003 | O'Brien | 73/23.2 |
| <u>2003/0027359</u> | February 2003 | Hudak et al. | 436/518 |
| <u>2003/0126799</u> | July 2003 | Porret et al. | 49/507 |
| <u>2004/0035183</u> | February 2004 | O'Brien et al. | 73/23.36 |
| <u>2004/0215294</u> | October 2004 | Littrup et al. | 607/96 |
| <u>2004/0251905</u> | December 2004 | Gozansky | 324/321 |

ART-UNIT: 2859

PRIMARY-EXAMINER: Shrivastav; Brij

ASSISTANT-EXAMINER: Fetzner; Tiffany A.

ATTY-AGENT-FIRM: Mayer, Brown, Rowe & Maw LLP

ABSTRACT:

An analytical instrument for analyzing biohazardous specimens is provided. The instrument provides means for exposing only the sample chamber to the containment area. A process for analyzing a biohazardous sample is also provided.

9 Claims, 10 Drawing figures

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | FIGS | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|----------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|----------|

4. Document ID: US 7084629 B2 Relevance Rank: 52

L1: Entry 1 of 4

File: USPT

Aug 1, 2006

US-PAT-NO: 7084629

DOCUMENT-IDENTIFIER: US 7084629 B2

TITLE: Parallel imaging compatible birdcage resonator

DATE-ISSUED: August 1, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20050099179 A1

May 12, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------------|--------------|-------|----------|---------|
| Monski, Jr.; William J. | Sewickley | PA | | US |
| Alradady; Fahad | Glenshaw | PA | | US |
| Misic; George J. | Allison Park | PA | | US |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|--------------|-----------|-------|----------|---------|-----------|
| Medrad, Inc. | Indianola | PA | | US | 02 |

APPL-NO: 10/723428 [PALM]

DATE FILED: November 27, 2003

RELATED-US-APPL-DATA:

us-provisional-application US 60429855 00 20021127

INT-CL-ISSUED:

| TYPE | IPC | DATE | IPC-OLD |
|------|----------|----------|------------|
| IPCP | G01V3/00 | 20060101 | G01V003/00 |

INT-CL-CURRENT:

| TYPE | IPC | DATE |
|------|------------|----------|
| CIPP | G01 V 3/00 | 20060101 |

US-CL-ISSUED: 324/318; 324/322

US-CL-CURRENT: 324/318; 324/322

FIELD-OF-CLASSIFICATION-SEARCH: 324/318-322, 324/316, 324/314, 324/312, 600/410, 600/422

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

| PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|---------------------|----------------|-------------------|---------|
| <u>4634980</u> | January 1987 | Misic et al. | |
| <u>4684895</u> | August 1987 | Misic et al. | |
| <u>4692705</u> | September 1987 | Hayes | |
| <u>4731584</u> | March 1988 | Misic et al. | |
| <u>4740751</u> | April 1988 | Misic et al. | |
| <u>4764726</u> | August 1988 | Misic et al. | |
| <u>4793356</u> | December 1988 | Misic et al. | |
| <u>4797617</u> | January 1989 | Misic et al. | |
| <u>4825162</u> | April 1989 | Roemer et al. | |
| <u>4839594</u> | June 1989 | Misic et al. | |
| <u>4841248</u> | June 1989 | Mehdizadeh | |
| <u>4879516</u> | November 1989 | Mehdizadeh et al. | |
| <u>4881034</u> | November 1989 | Kaufman et al. | |
| <u>4920318</u> | April 1990 | Misic et al. | |
| <u>4975644</u> | December 1990 | Fox | |
| <u>5136244</u> | August 1992 | Jones et al. | |
| <u>5196796</u> | March 1993 | Misic et al. | |
| <u>5209233</u> | May 1993 | Holland et al. | |
| <u>5256971</u> | October 1993 | Boskamp | |
| <u>5258717</u> | November 1993 | Misic et al. | |
| <u>5315251</u> | May 1994 | Derby | |
| <u>5517120</u> | May 1996 | Misic et al. | |
| <u>5521506</u> | May 1996 | Misic et al. | |
| <u>5602479</u> | February 1997 | Srinivasan et al. | 324/318 |
| <u>5610520</u> | March 1997 | Misic et al. | |
| <u>5664568</u> | September 1997 | Srinivasan et al. | 600/422 |
| <u>5998999</u> | December 1999 | Richard et al. | |
| <u>6040697</u> | March 2000 | Misic | |
| <u>6051974</u> | April 2000 | Reisker et al. | |
| <u>6060883</u> | May 2000 | Knuttel | |
| <u>6100691</u> | August 2000 | Yeung | |
| <u>6177797</u> | January 2001 | Srinivasan | |
| <u>6223065</u> | April 2001 | Misic et al. | |
| <u>6344745</u> | February 2002 | Reisker et al. | 324/318 |
| <u>6356081</u> | March 2002 | Misic | |
| <u>6396273</u> | May 2002 | Misic | |
| <u>6426624</u> | July 2002 | Snelten | 324/318 |
| <u>6549799</u> | April 2003 | Bock et al. | 600/422 |
| <u>6714013</u> | March 2004 | Misic | 324/318 |
| <u>6745064</u> | June 2004 | Fuderer et al. | 600/410 |
| <u>6831460</u> | December 2004 | Reisker et al. | 324/318 |
| <u>6850064</u> | February 2005 | Srinivasan | 324/318 |
| <u>2002/0156362</u> | October 2002 | Bock et al. | 600/410 |
| <u>2003/0071622</u> | April 2003 | Reisker et al. | 324/318 |

2005/0099179

May 2005

Monski et al.

324/318

OTHER PUBLICATIONS

Lin, et al., Magnetic Resonance in Medicine, "A Novel Multi-Segment Surface Coil for Neuro-Functional Magnetic Resonance Imaging," vol. 39, pp. 164-168 (1998).
cited by other

Meyer et al., Journal of Magnetic Resonance, Series B, "A 3.times.3 Mesh Two-Dimensional Ladder Network Resonator of MRI of the Human Head," vol. 107, p. 19-24 (1995). cited by other

Roemer et al., Magnetic Resonance in Medicine, "The NMR Phased Array," vol. 16, pp. 192-225 (1990). cited by other

Adriany, G. et al., "A Transmit/Receive Quadrature Birdcage Array Coil for 4 Tesla," Proceedings of the ISMRM, 5th Scientific Meeting and Exh., v. 1, p. 177 (Apr. 12-18, 1997). cited by other

Adriany G. et al., "A Transmit/Receive Quadrature Birdcage Array for 4 Tesla," Presentation to the ISMRM, 5th Scientific Meeting and Exhibition., Vancouver (Apr. 12-18, 1997). cited by other

Brochure: "High Resolution Head Coil for GE MRI Systems," MRI Devices Corporation, Rev. 2, Jan. 2002. cited by other

Brochure: "Neurovascular High Resolution Head Coil 1.5 T & 3.0T," MRI Devices Corporation, Undated. cited by other

ART-UNIT: 2859

PRIMARY-EXAMINER: Gutierrez; Diego

ASSISTANT-EXAMINER: Fetzner; Tiffany A.

ATTY-AGENT-FIRM: Stevenson; James R.

ABSTRACT:

A birdcage coil for use with a magnetic resonance (MR) system comprises a first ring at one thereof, a second ring at the other end thereof, and a plurality of rods electrically interconnecting the first and second rings. The first ring is electrically conductive and has a first diameter. The second ring is electrically conductive and has a second diameter. The rods and first and second rings are configured to form about the birdcage coil a plurality of partially-overlapped primary resonant substructures. Each primary resonant substructure includes two of the rods and the corresponding sections of the first and second rings interconnecting them.

75 Claims, 25 Drawing figures

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | RMK | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|--------|

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|-------|---------------------|-------|----------|-----------|---------------|

| Term | Documents |
|----------|-----------|
| FETZNER | 334 |
| FETZNERS | 0 |

| | |
|---|--------|
| CABINET | 172034 |
| CABINETS | 38031 |
| (FETZNER AND CABINET) . PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD. | 4 |
| ((FETZNER) AND CABINET) . PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD. | 4 |

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